Name $\qquad$

1. How do you calculate yield strength of a steel material? Support with figure.
2. A 2 -in-long round rod with a diameter of 0.25 in is loaded with a $4000-\mathrm{lb}$ weight. If the length of the rod increases to 2.1 in , compute the following:
(a) The engineering stress at this load.
(b) The engineering strain at this load.
(c) The true stress at this load.
(d) The true strain at this load.
